



CPUC 2018 Safety En Banc on Safety Management Systems



**Application of Safety Management System Standards to
prevent Incidents through CPUC Electric Generation
Chris Parkes, OSA**





CPUC Electric Generation Standards

CPUC 2018 Safety En Banc on Safety Management Systems

After the 2000/2001 California Energy Crisis, the Commission adopted General Order 167 Generation Operation and Maintenance Performance Standards.

Some of these overlap what may be found in a Safety Management System, and include items such as:

- Safety Culture
- Root Cause Analysis
- Leadership
- Quality Control
- ... and more





CPUC Electric Generation Standards

CPUC 2018 Safety En Banc on Safety Management Systems

Topic:

Two Examples of how Electric Generation Standards, as a form of a Safety Management systems have prevented incidents.





Seward, Illinois 2007

Safety Risks come in Different Forms



Anhydrous Ammonia

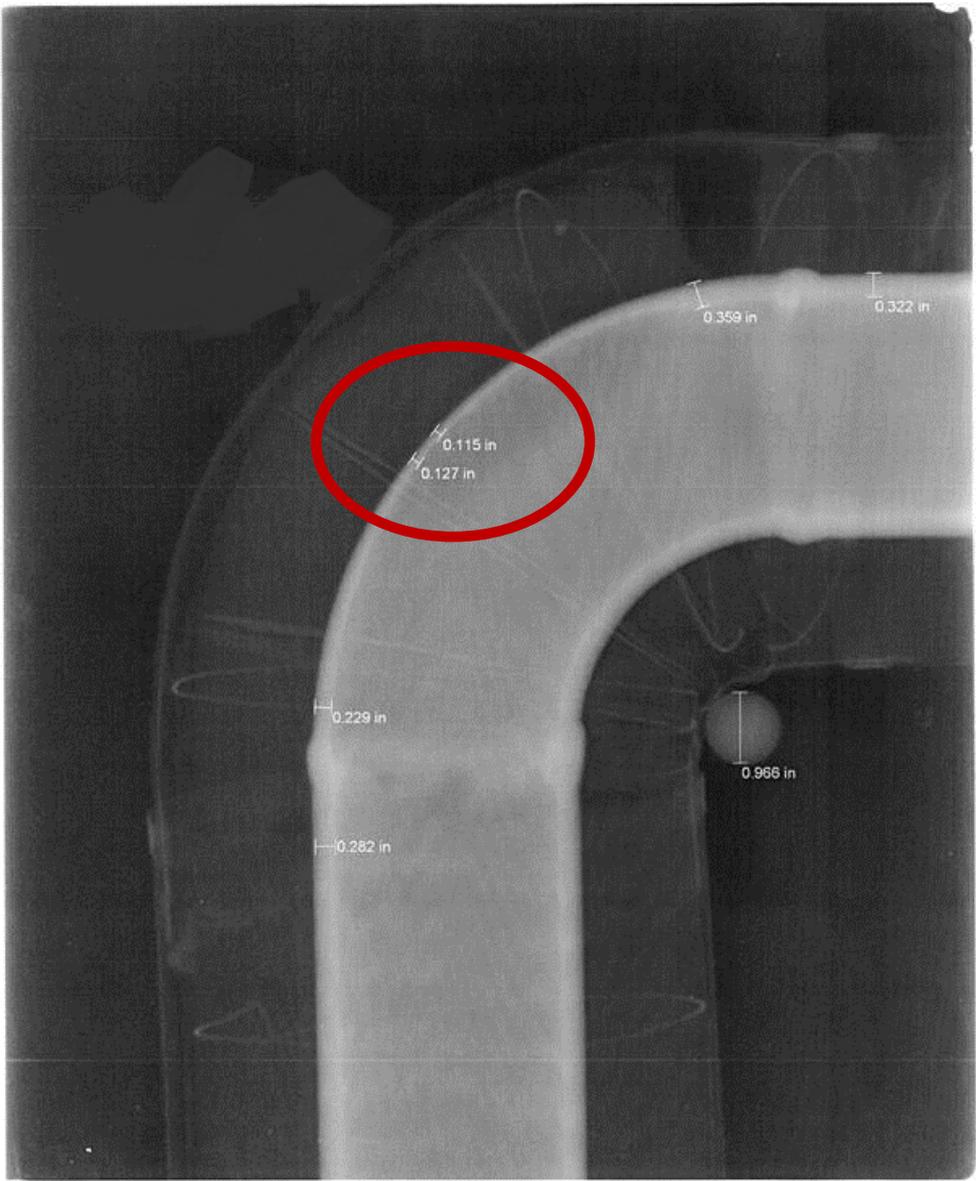
https://www.youtube.com/watch?v=qli4_Poo2HY





High Energy Piping

0.115 Inch





9:30 – 9:45 AM	Welcome and Introductory Remarks
9:45 – 11:05 AM	<p>Session 1 -- Industry Experts, Academia, & Regulators Presentations:</p> <ul style="list-style-type: none"> • Background of Safety Management Systems and Standards - Chris Parkes, OSA • Sample Implementation of an Industry-Wide Safety Management System Christopher A. Hart, former Chair, NTSB • Paradoxes, Challenges and Opportunities in the Implementation of Safety Management Systems Dr. Paul Schulman, Center for Catastrophic Risk Management, UC Berkeley • Case Study: Pipeline Safety Management System Implementation Christopher Pioli, Jacobs Consultancy • It's not just implementation of a safety management system, it's how you go about it. Megan Weichel, DNV GL
11:05 – 11:15 AM	BREAK
11:15 – 12:30 PM	<p>Session 2 -- Industry Experts, Academia, & Regulators Presentations (Continued):</p> <ul style="list-style-type: none"> • Pitfalls from Big Accidents Morris Burch G2 Integrated Solutions • Application of Safety Management System Standards to prevent Incidents through CPUC Electric Generation Standards - Chris Parkes, OSA • Management Systems and Safety Culture Advancement: One Regulator's Journey – Dr. Claudine Bradley, National Energy Board, Canada • Accidental Release Prevention Process Safety Management Systems - Incident Reductions after Implementation of Contra Costa County Industrial Safety Ordinance, including Safety Culture Requirements Randall L. Sawyer, Contra Costa County
12:30 – 1:25 PM	LUNCH BREAK

